

CLAIMS

1. Telecommunication equipment (10) for setting up local telephone connections between at least one mobile telephone (1) belonging to a private network (20) and a public network, the equipment including:

- a downstream radio access system (3) for setting up a downstream link to a base transceiver station (5) of a public mobile telephone network, and

- an upstream radio access system (2) for setting up an upstream link to a mobile telephone (1) of the private network,

characterized in that the upstream system (2) and the downstream system (3) apply the same mobile telephone standard, which is that of the public mobile telephone network,

and in that it further includes a service signal converter module (4) between the upstream system (2) and the downstream system (3) adapted to:

- repeat signals it receives from the upstream and downstream systems and adapt them to suit the characteristics of the downstream and the upstream link, respectively, and

- extract from the signaling information specific to the mobile telephones (1) belonging to the private network and used to manage calls between the terminals of the private network and store that information in a local database (8).

2. Telecommunication equipment according to claim 1, characterized in that the downstream system (3) includes means for simulating mobile terminal links.

3. Telecommunication equipment according to claim 1 or claim 2, characterized in that the upstream system (2) includes means for simulating base transceiver station links.

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4. Telecommunication equipment according to claim 1, characterized in that the downstream system (3) or the converter module (4) includes a plurality of modules for identifying public mobile telephone network users, and in
5 that the converter module (4) includes means for choosing one or more identification modules.

5. Telecommunication equipment according to claim 4, characterized in that it includes means for choosing the modules used which are controlled in accordance with a
10 criterion related to the user's contract (for example the identity of the operator).

6. Equipment according to claim 1, characterized in that the converter module (4) includes means for detecting by means of a database (8) that the user of a
15 mobile telephone terminal (1) has a contract with the GSM public network and for carrying out transfer without using any of the subscriber resources of the downstream system.

7. Equipment according to claim 1, characterized in that the upstream system (2) further includes means (2)
20 for connecting a DECT or landline telephone (1bis).

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